

# IP Prefix Advertisement in EVPN

---

draft-rabadan-l2vpn-evpn-prefix-advertisement-03

Jorge Rabadan

Wim Henderickx

Florin Balus

Senad Palislamovic

Aldrin Isaac

Ali Sajassi

John Drake

IETF 91, November 2014

Honolulu, US

# EVPN IP Prefix route encoding

IP Prefix Route (Proposed route type 5)

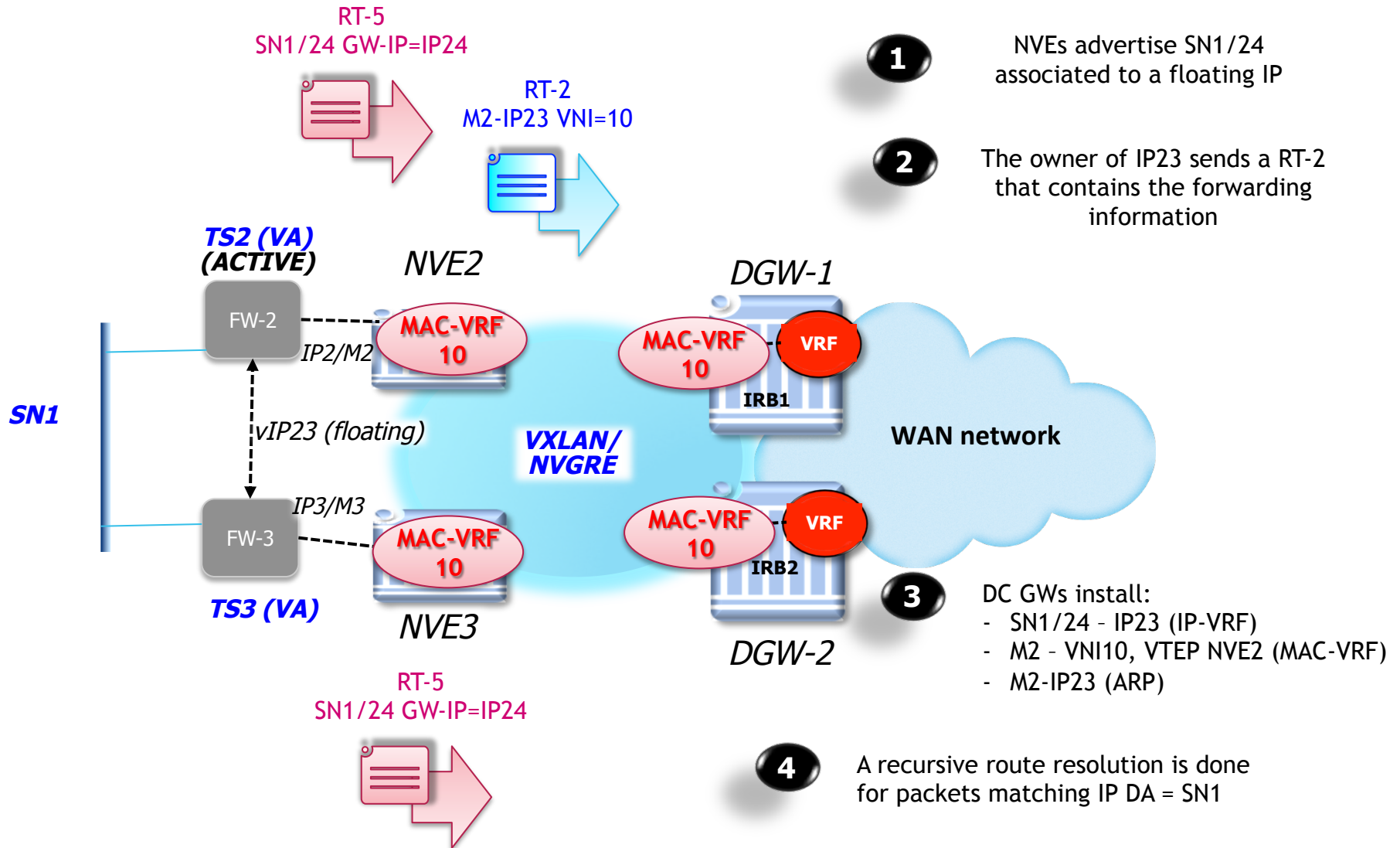
Route Distinguisher (8 byte)
Ethernet Segment ID (10 bytes)
Ethernet Tag ID (4 bytes)
IP Prefix length (1 byte)
IP Prefix (4 or 16 bytes)
GW IP Address (4 or 16 bytes)
MPLS Label (3 bytes)

- This draft defines EVPN route type 5 - IP Prefix route and describes how to use it through some use-cases
- Allows the advertising of IP Prefixes associated to overlay next-hops (recursive route resolution needed) or underlay next-hops
- Existing shipping code
- Aligned with draft-sajassi-l2vpn-evpn-inter-subnet-forwarding

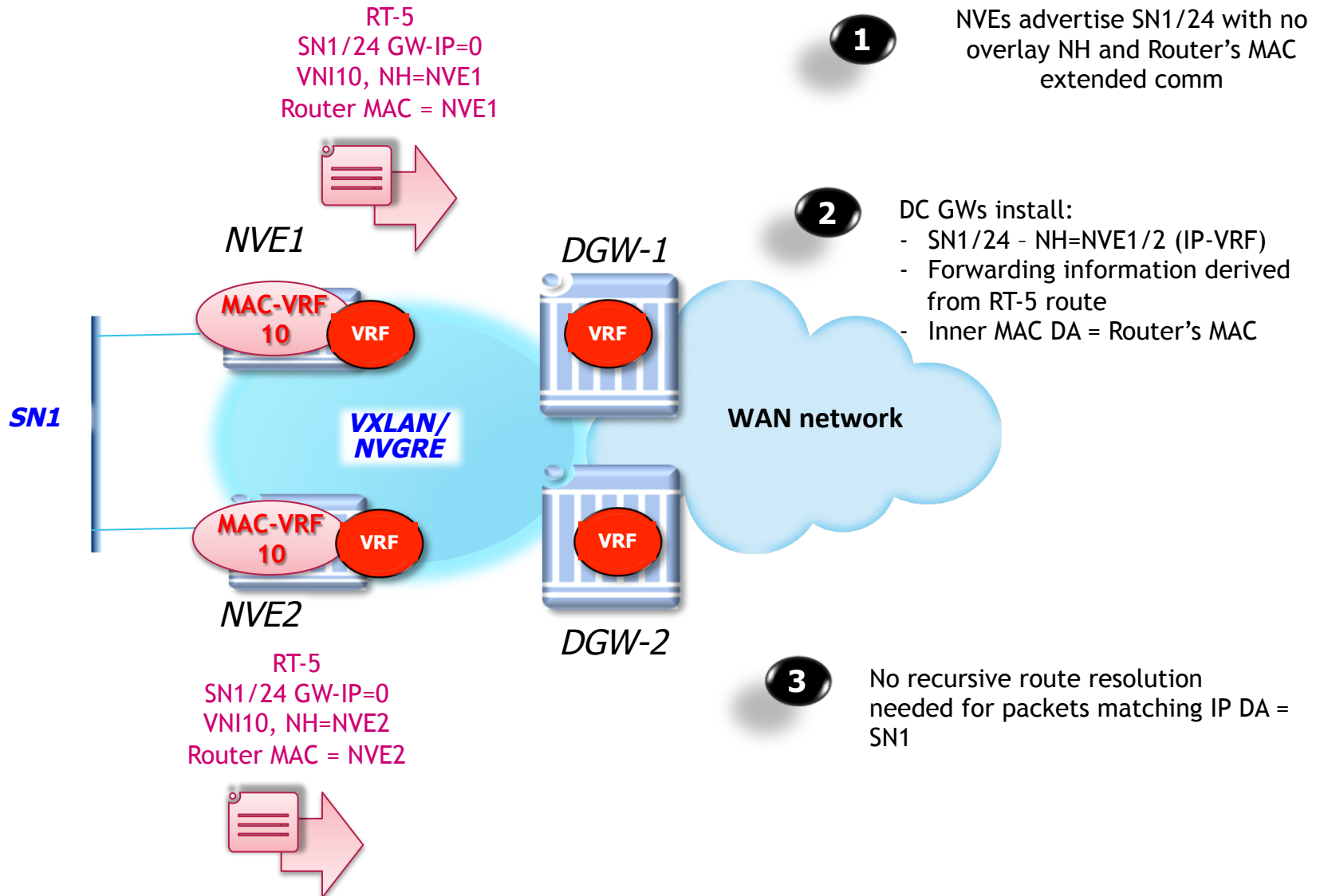
Use case	Next-hop used
TS IP Address	GW IP
Floating IP Address	GW IP
Bump in the wire	ESI
IRB forwarding	BGP next-hop

Overlay next-hops (require recursive route resolution)

# Example use-case #2: Prefix behind a floating IP



# Example use-case #4: IRB forwarding for subnets (modified in rev3)



# Conclusions and next steps

- The draft has been discussed at length and is now mature
- There are implementations
- The authors would like to request WG adoption for this draft (along with draft-sajassi-l2vpn-evpn-inter-subnet-forwarding)

THANKS!